

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Claims 1–10. (Cancelled)

11. (Currently Amended) A computer controlled method for processing an order for programmable integrated circuits (ICs), comprising the steps of:

receiving a plurality of configurations from a plurality of customers by a vendor of the programmable integrated circuits;

storing the [[a]] plurality of configurations by the vendor;

pulling specified volumes of un-programmed ICs from inventory by the vendor in response to an order from a first customer of the plurality of customers;

programming the specified volumes of ICs by the vendor with one of the plurality of configurations a configuration selected by the first customer; and

packing the programmed ICs for shipment from the vendor to the first customer.

12. (Original) The method according to claim 11, wherein the ICs comprise field programmable gate arrays (FPGAs) and the step of programming comprises the steps of:

attaching a memory device to the FPGAs; and

programming the FPGAs using the selected configuration stored in the memory device.

13. (Original) The method according to claim 11, wherein the ICs each comprise a field programmable gate array (FPGA) and a memory device connected to the FPGA co-resident in one package and the step of programming comprises the step of:

programming the memory device while it is connected to the FPGA; and

powering up the FPGA and the memory device in order that the memory device configures the FPGA.

14. (Original) The method according to claim 11, wherein the ICs each comprise a field programmable gate array (FPGA) and a memory device connected to the FPGA co-resident on a common die and the step of programming comprises the step of:

programming the memory device while it is connected to the FPGA; and
powering up the FPGA and the memory device in order that the memory device configures the FPGA.

15. (Original) The method according to claim 12, wherein the memory device is selected from a group consisting of a programmable read only memory (PROM), NAND flash, NOR FLASH, erasable PROM, and electrically erasable PROM.

16. (Original) The method according to claim 13, wherein the memory device is selected from a group consisting of a programmable read only memory (PROM), NAND flash, NOR FLASH, erasable PROM, and electrically erasable PROM.

17. (Original) The method according to claim 14, wherein the memory device is selected from a group consisting of a programmable read only memory (PROM), NAND flash, NOR FLASH, erasable PROM, and electrically erasable PROM.

18. (Original) The method according to claim 14, wherein the memory device is an anti-fuse.

19. (Original) The method according to claim 11, further comprising the step of testing the programmed ICs.

20. (Original) The method according to claim 11, further comprising the step of labeling the programmed ICs to reflect the selected configuration.

21. (Original) The method according to claim 11, further comprising tracking sales of the volumes of ICs programmed using the specific configuration.

22. (Original) The method according to claim 11, wherein the selected configuration is developed by the customer.

23. (Original) The method according to claim 20, wherein the step of labeling comprises marking the programmed ICs with at least one of a customer name and a customer logo.

Claims 24–28. (Cancelled)

29. (Currently Amended) A system for processing an order for programmable integrated circuits (ICs), comprising:

means for providing a plurality of configurations by a plurality of customers to a vendor of the programmable integrated circuits;

means for storing a plurality of configurations by the vendor;

means for pulling specified volumes of un-programmed ICs from inventory by the vendor in response to an order from a first customer of the plurality of [[a]] customers;

means for programming the specified volumes of ICs by the vendor with one of the plurality of configurations a configuration selected by the first customer;

means for packing the programmed ICs for shipment from the vendor to the first customer; and

computerized means for controlling the means for pulling, programming, and packing.

30. (Original) The system according to claim 29, wherein the ICs include field programmable gate arrays (FPGA) and the means for programming comprises:

means for attaching a memory device to the FPGA and programming the FPGA using the selected configuration stored in the memory device.

31. (Original) The system according to claim 29, wherein the ICs each include a field programmable gate array (FPGA) and a memory device connected to the FPGA, the means for programming programs the memory device while it is connected to the FPGA, and the system further comprises:

means for powering up the FPGA and the memory device in order that the memory device configures the FPGA.

32. (Original) The system according to claim 29, wherein the ICs each include a field programmable gate array (FPGA) and a memory device connected to the FPGA co-resident on a common die, the means for programming programs the memory device while it is connected to the FPGA, and the system further comprises:

means for powering up the FPGA and the memory device in order that the memory device configures the FPGA.

33. (Original) The system according to claim 31, wherein the FPGA and the memory device are co-resident on a common die.

34. (Original) The system according to claim 30, wherein the memory device is selected from a group consisting of a programmable read only memory (PROM), NAND flash, NOR FLASH, erasable PROM, and electrically erasable PROM.

35. (Original) The system according to claim 31, wherein the memory device is selected from a group consisting of a programmable read only memory (PROM), NAND flash, NOR FLASH, erasable PROM, and electrically erasable PROM.

36. (Original) The system according to claim 32, wherein the memory device is selected from a group consisting of a programmable read only memory (PROM), NAND flash, NOR FLASH, erasable PROM, and electrically erasable PROM.

37. (Original) The system according to claim 32, wherein the memory device is an anti-fuse.

38. (Original) The system according to claim 29, further comprising means for testing the programmed ICs.

39. (Original) The system according to claim 29, further comprising means for labeling the programmed ICs to reflect the selected configuration.

40. (Original) The system according to claim 29, further comprising means for tracking sales of the volumes of ICs programmed using the specific configuration.

41. (Original) The system according to claim 29, wherein the selected configuration is developed by the customer.

42. (Original) The system according to claim 39, wherein the means for labeling comprises means for marking the programmed ICs with at least one of a customer name and a customer logo.